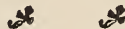




School of Practical Science

PROVINCE OF ONTARIO.

(AFFILIATED TO THE UNIVERSITY OF TORONTO.)



CLASS LIST, 1898.

WARWICK BROS
& RUTTER &



TORONTO

FACULTY OF THE SCHOOL.

J. GALBRAITH, M.A., M. CAN. SOC. C. E., PRINCIPAL.

MEMBERS OF THE COUNCIL.

J. GALBRAITH, M.A., M. CAN. SOC. C. E. *Professor of Engineering (Chairman).*
W. H. ELLIS, M.A., M.B. *Professor of Applied Chemistry.*
A. P. COLEMAN, M.A., PH. D. *Professor of Assaying and Metallurgy.*
L. B. STEWART, O.L.S., D.T.S. *Lecturer in Surveying (Secretary).*
C. H. C. WRIGHT, B.A. Sc. *Lecturer in Architecture.*
T. R. ROSEBRUGH, M.A., GRAD. S.P.S. *Lecturer in Electrical Engineering.*
J. A. DUFF, B.A., GRAD. S.P.S. *Lecturer in Applied Mechanics.*
G. R. MICKLE, B.A., GRAD. S.P.S. *Lecturer in Mining Engineering.*

ASSISTANT INSTRUCTORS.

J. W. BAIN, B.A., Sc. *Acting Demonstrator in Metallurgy Assaying.*
F. N. SPELLER, B.A. Sc. *Fellow in Analytical and Applied Chemistry.*
J. KEELE, B.A. Sc. *Fellow in Civil Engineering.*
W. MINTY, B.A. Sc. *Fellow in Mechanical Engineering.*
A. T. LAING, B.A. Sc. *Acting Demonstrator in Surveying.*
R. W. ANGUS, B.A. Sc. *Fellow in Electrical Engineering.*

MEMBERS OF THE FACULTY OF THE UNIVERSITY OF TORONTO WHOSE CLASSES ARE ATTENDED BY THE REGULAR STUDENTS OF THE SCHOOL.

JAMES LOUDON, M.A. *President and Professor of Physics.*
R. RAMSAY WRIGHT, M.A., B. Sc. *Professor of Biology.*
W. H. PIKE, M.A., PH. D. *Professor of Chemistry.*
ALFRED BAKER, M.A. *Professor of Mathematics.*
A. B. MACALLUM, B.A., M.B., PH. D. *Professor of Physiology.*
W. J. LOUDON, B.A. *Demonstrator in Physics.*
C. A. CHANT, B.A. *Lecturer in Physics.*
J. C. McLENNAN, B.A. *Assistant Demonstrator in Physics.*
ALFRED T. DeLURY, B.A. *Lecturer in Mathematics.*
W. L. MILLAR, B.A., PH. D. *Demonstrator in Chemistry.*
F. J. SMALE, B.A., PH. D. *Lecturer in Chemistry.*
W. J. RUSK, B.A. *Fellow in Mathematics.*



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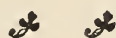
School of Practical Science

TORONTO

(AFFILIATED TO THE UNIVERSITY OF TORONTO.)

RESULTS OF ANNUAL EXAMINATIONS.

SESSION 1897-8.



DEPARTMENTS.

CIVIL ENGINEERING (INCLUDING SANITARY ENGINEERING).
MINING ENGINEERING.
MECHANICAL AND ELECTRICAL ENGINEERING.
ARCHITECTURE.
ANALYTICAL AND APPLIED CHEMISTRY.

DEGREES.

BACHELOR OF APPLIED SCIENCE (B.A. Sc.).
CIVIL ENGINEER (C.E.)
MINING ENGINEER (M.E.)
MECHANICAL ENGINEER (M.E.)
ELECTRICAL ENGINEER (E.E.)

Candidates are arranged alphabetically in the Departments and in the 4th or Post-Graduate year, in two classes, Honor and Pass.

DEPARTMENT OF CIVIL ENGINEERING.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Tennant, W. C.	Latham, R. Patterson, J. Shanks, T. Tennant, D. C.	Stewart, J. A. Vercoe, H. L.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Adams, F. P. Clarke, F. F. Cooper, C. E. Davison, J. E. Phillips, E. H. Power, G. H. Thorold, F. W. Weir, H. M.	Allan, J. L. Bray, L. T. Cooper, C. Willson, R. D.	Grant, W. F. Kormann, J. S. McNaughton, F. D. Shaw, J. H. Smith, R.

DEPARTMENT OF MINING ENGINEERING.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Boswell, M. C. Johnston, J. A.	Revell, G. E.	

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Ardagh, E. G. R. Burd, G. H. Dixon, H. A. Fullerton, C. H. Gray, J. W. Holcroft, H. S. Hunt, G. A. Matheson, W. C. Mackenzie, J. R. McMillan, J. G. Morrison, J. A. Roaf, J. R. Saunders, H. W. Smith, A. H. Thorne, S. M.	Burnside, T. Clothier, G. A. Elliot, J. C. Watt, G. H. Coulthard, R. W. (con- ditioned).	Boyd, W. H. Carter, W. E. H.

DEPARTMENT OF MECHANICAL AND ELECTRICAL
ENGINEERING.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Clark, J.	Barber, T. Chubbuck, L. B. Hare, W. A.	Smallpiece, F. C.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Clark, N. Davidson, W. S. Dickinson, E. D. Dickson, G. W. Guest, W. Henry, J. A. Johnston, J. C. Johnston, H. A. Lavell, M. N. Lumbers, W. C. Middleton, H. T. Miller, L. H. Price, H. W. Withrow, F. D.	Craig, J. A. Foreman, W. E. Guy, E. Hall, G. A. Hemphill, W. McMichael, C. Monds, W. Pope, A. S. H. Rounthwaite, C. H. E. Saunders, G. A. Van Every, W. W. Wagner, W. E. Yeates, E. G.	Darling, E. H. Lavrock, J. E. Shipley, A. E. Wilkinson, T. A. Williamson, D. A.

DEPARTMENT OF ARCHITECTURE.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
		Mackintosh, D.

PRIZEMEN.

THIRD YEAR—Civil Engineering.

J. A. Stewart.

THIRD YEAR—Mechanical and Electrical Engineering.

F. C. Smallpiece.

The former of these is the gift of Mr. T. Kennard Thomas, C.E., of New York.

SPECIAL CERTIFICATE.

Mining and Metallurgy—

A. N. McMillan.

I. YEAR.

DRAWING.	FIELD NOTES.	EXPERIMENTAL PHYSICS.
Tennant. Price. Power. Cooper. Adams. Johnston, J. C. Phillips. Morrison. Johnston, J. A. Thorold. Gray. Clark, J. Clark, N. Davison. { McMillan. Hunt, G. A. Clark, F. F. Dickinson. { Guest. Dixon. Henry, J. A. Johnston, H. A. Mackenzie. Weir. Smith. Miller. Lumbers. Fullerton. Saunders. Dickson. Roaf. Holcroft. Boswell. Matheson. Burd. Lavell. Middleton. Davidson. Ardagh. Thorne. Withrow. Carmichael.	Tennant. Thorold. Phillips. Morrison. { Mackenzie. Power. Fullerton. Dixon. { Adams. Clark, F. F. Ardagh. Smith. Weir. Gray. { Johnston, J. A. Saunders. Matheson. Thorne. Davison, J. E. { Burd. McMillan. Boswell. Roaf. { Holcroft. Hunt, G. A. Cooper,	Henry, J. A. Middleton. Price. Johnston, J. C. Withrow. Dickinson. Dickson, J. W. Carmichael. Johnston, H. A. Lavell. Clark, J. Miller. Guest. Clark, N. Lumbers. Davidson.

I. YEAR.

PRACTICAL CHEMISTRY.	PRACTICAL ELECTRICITY.	ALGEBRA.
Fullerton. { Dixon. { Holcroft. Morrison. { Hunt, G. A. { Thorne. { Boswell. { Gray. McMillan. Saunders. Clarke, N. { Davison. { Burd. { Guest. Dickinson. { Ardagh. { Matheson. { Phillips. { Johnston, J. A. { Mackenzie. Clark, J. { Dickson. { Johnston, H. A. { Miller. { Weir. { Lavell. { Price. Power. Middleton. { Roaf. { Smith. { Cooper. { Withrow. { Henry, J. A. { Johnston, J. C. { Adams. { Carmichael. { Tennant. { Thorold. Davidson. Clark, F.	Clark, J. Dickson. Davidson. { Johnson, H. A. { Miller. Withrow. { Dickinson. { Lavell. { Price. Carmichael. { Henry, J. A. { Johnston, J. C. { Lumbers. { Middleton. Guest. Clarke, N.	Boswell. McMillan. Gray. Dixon, H. A. Roaf. Tennant. Carmichael. Miller. Adams. { Davison, J. E. { Phillips, E. H. { Guest. { Withrow. { Clark, J. { Weir. { Dickson, G. W. { Power. Fullerton. { Johnston, J. C. { Lumbers, W. C. { Saunders, H. W. { Clarke, F. F. { Johnston, J. A. Cooper. Middleton. Holcroft. Thorne. Henry, J. A. Matheson { Johnston, H. A. { Lavell. { Burd. { Mackenzie. { Davidson, W. S. { Dickinson. { Ardagh. { Price. { Smith. { Morrison. { Thorold. Hunt.

I. YEAR.

EUCLID.	TRIGONOMETRY.	ANALYTICAL GEOMETRY.
Boswell. Clark, J. { Johnston, J. A. { Miller. Philips. { Fullerton. { Gray. { Adams. { Davidson, { McMillan. Dickson. Ardagh. { Weir. { Clarke, F. F. Thorne. McKenzie. { Hunt, G. A. { Lumbers. Middleton. Withrow. Roaf. Matheson. Dixon. Guest. { Holcroft. { Lavell. { Saunders. Burd. Tennant. Thorold. Dickinson. Johnston, J. C. Cooper. Smith. Morrison. Price. Clarke, N. Power. Davidson. Johnston, H. A.	Boswell. Miller. Weir. Johnston, J. A. Adams. { Guest. { Johnston, J. C. { Dixon, H. A. { Clark, J. Withrow. Tennant. McMillan. Carmichael. Holcroft. Gray. { Fullerton. { Power. Mackenzie. Roaf. Ardagh. Thorne. { Henry, J. A. { Phillips. Matheson. Lavell. { Clarke, N. { Thorold. { Saunders. Clarke, F. F. Johnston, H. A. Middleton. { Burd. { Morrison. { Davidson, W. S. { Lumbers. { Smith. { Dickinson. { Price.	Boswell. Gray. Weir. Fullerton. Mackenzie. McMillan. { Dixon, H. A. { Guest. { Johnston, J. A. Davison. Holcroft. Carmichael. Clarke, F. F. { Power. { Thorne. Phillips. Miller. Roaf. Lumbers. Burd. Adams. Johnston, J. C. Thorold. Middleton. Ardagh. Price. { Clark, J. { Cooper. { Henry. { Hunt. Davidson. Smith. Tennant. Dickson, G. W. Matheson. { Johnston, H. A. { Withrow. Clarke, N. Lavell.

I. YEAR.

ELEMENTARY CHEMISTRY.	DESCRIPTIVE GEOMETRY.	STATICS.
Fullerton. Boswell. { Clark, J. { McMillan. { Miller. Ardagh. Johnston, H. A. { Tennant. { Power. { Davison. { Dickson. Johnston, J. A. Adams. Dixon. Gray. Guest. Holcroft. Phillips. Burd. Weir. Clarke, N. Mackenzie. { Matheson. { Withrow. { Clarke, F. F. { Henry, J. A. { Johnston, J. C. { Lumbers. { Middleton. { Roaf. { Saunders. { Smith. { Hunt, G. A. { Lavell. { Davidson. { Dickinson. { Thorold. { Morrison. { Cooper. { Thorne.	Boswell. Johnston, J. A. Clark, J. Mackenzie. { Guest. { Withrow. Adams. Weir. Phillips. { Power. { Tennant. Ardagh. Roaf. { Clarke, F. F. { Dixon, H. A. { Price. { Holcroft. { Miller. { Lumbers. { Fullerton. Thorold. Burd. { Dickson, G. W. { Clarke, N. { Gray. Thorne. { Henry, J. A. { Lavell. { Matheson. { Cooper. { Dickinson. Davidson. { Middleton. { McMillan.	Dixon. Boswell. Clark, J. Davison, J. E. Adams. Gray. { Miller. { Weir. McMillan. Henry. Price. { Johnston, J. A. { Tennant. { Clarke, F. F. { Guest. { Thorold. Clarke, N. Fullerton. { Davidson, W. S. { Power. { Hunt, G. A. { Saunders. Dickson, G. W. { Withrow. { Matheson. Dickinson.

I. YEAR.

DYNAMICS.	SURVEYING.	ELECTRICITY AND MAGNETISM.
Boswell. Johnston, J. A. { Fullerton. { Clark, J. { McMillan. { Gray. Tennant. Dixon. { Johnston, J. C. { Carmichael. { Holcroft. { Withrow. { Phillips. { Thorold. Roaf. { Guest. { Adams. { Morrison. { Price. { Miller. Weir. Johnston, H. A. Dickinson. { Power. { Clarke, N. { Ardagh. { Lumbers. { Dickson, G. W. { Cooper. { Matheson. { Davison, J. E. { Henry, J. A. { Mackenzie. { Hunt, G. A. { Saunders. { Lavell, { Davidson.	{ Phillips. { Tennant. Dixon. Roaf. Weir. Adams. Johnston, J. C. Fullerton, C. H. Boswell. Johnston, H. A. Davison. { Lavell. { McMillan. { Clarke, F. F. { Johnston, J. A. Clark, J. { Miller. { Gray. Holcroft. { Withrow. { Mackenzie. { Saunders. { Power. { Ardagh. { Cooper. { Matheson. { Dickinson, { Guest. Dickson. { Smith. { Morrison. { Henry, J. A. { Lumbers. { Thorne. { Hunt Middleton. Burd.	{ Carmichael. { Clark, J. Dickson. Henry, J. A. Middleton. Lumbers. Johnston J. C. { Lavell. { Withrow. { Clarke, N. { Miller. Guest. Price. Johnston, H. A.

I. YEAR.

ELECTRICITY.		
Clark, J. Lavell. Price. Miller. Henry, J. A. Withrow. Dickson. { Carmichael. Johnston, J. C. { Guest. { Middleton. Clarke, N. Dickinson. Johnston, H. A. Lumbers. Davidson.		

II. YEAR.

DRAWING.	THESIS. CIVIL ENGINEERING.	THESIS. MECHANICAL AND ELECTRICAL ENGINEERING.
Tennant. Hare. Van Every. Latham. Chubbuck. Shanks. Monds, Burnside. { Barber. { Hall. Wagner. Saunders. Foreman. { Yeates. { Pope. Willson. Hemphill. Craig. { Patterson. { Rounthwaite. Watt. Allan. Clothier. Revell. Cooper. Bray. Elliott. Guy.	Shanks. { Patterson. { Cooper. Tennant. { Latham. { Allan. Bray. Willson.	{ Barber. { Craig. { Hare. { Monds. { Chubbuck. Van Every. { Pope. { Foreman. Yeates. { Hall. { McMichael. { Wagner. Rounthwaite. { Guy. { Saunders.

II. YEAR.

THESIS, MINING ENGINEERING.	CONSTRUCTION NOTES.	FIELD NOTES.
Watt. Burnside. Revell.	{ Shanks. { Chubbuck. { Barber. { Tennant. { Craig. { McMichael. { Hare. { Saunders. Pope. Watt. { Van Every. { Latham. { Revell. { Hall. { Patterson. { Cooper. { Wagner. { Monds. { Allan. { Burnside. { Guy. { Yeates.	Tennant. Allan. { Shanks. { Latham. { Patterson. { Cooper. { Watt. { Elliott. Clothier. Burnside. Willson. Revell. Bray.
EXPERIMENTAL PHYSICS, CIVIL AND MINING ENGINEERING.	EXPERIMENTAL PHYSICS, MECHANICAL AND ELECTRIC ENGINEERING.	PRACTICAL ELECTRICITY.
Elliott. Allan. Burnside. Patterson. Watt. { Revell. { Shanks. { Bray. { Clothier. Cooper. Tennant. Latham. Wilson.	Barber. Chubbuck. Craig. Foreman. Guy. Hall. Hare. Hemphill. Monds. Pope. Rounthwaite. Saunders. Van Every. Wagner. Yeates. McMichael.	Chubbuck. Hare. Van Every. Craig. Pope. { Barber. { Hall. Rounthwaite. Hemphill. Foreman. Saunders. Monds. { Wagner. { Guy. Yeates. McMichael.

II. YEAR.

PRACTICAL CHEMISTRY (QUALITATIVE).	PRACTICAL CHEMISTRY (QUANTITATIVE).	PRACTICAL MINERALOGY.
{ Burnside. { Saunders. - Craig. { Patterson. { Hare. - Shanks. - Van Every. { Allan. { Bray. { Elliott. { Monds. { Pope. { Guy. { Barber. { Chubbuck. { Cooper. - Revell. - Willson. - Clothier. { Wagner. { Hall. { Latham. - Watt. { Hemphill. { Foreman. { Yeates. - McMichael. { Rounthwaite. { Tennant.	- Burnside. { Clothier. { Watt. { Revell. { Elliott.	- Bray. - Shanks. - Watt. - Elliott. - Revell. { Clothier. { Latham. - Patterson. - Willson. - Tennant. - Cooper. - Allan. - Burnside.

II. YEAR.

PRACTICAL LITHOLOGY, MINING.	APPLIED CHEMISTRY.	CALCULUS.
Watt. Burnside. Elliott. Clothier. Revell.	{ Patterson. Wagner. Shanks. Saunders. Rounthwaite. Yeates. Barber. Chubbuck. { Tennant. Van Every. { Revell. Pope. Latham. Monds. Elliot. Burnside. Craig. { Clothier. Foreman. { Hall. Watt. { Hare. Willson. Hemphill. { Allan. Cooper. { Guy. McMichael.	Patterson. Shanks. Revell. Willson. Latham. Craig. Saunders. Watt. Bray. Wagner. Elliott. { Guy. McMichael. { Clothier. Monds. { Van Every. Barber. { Tennant. Yeates. Pope. Burnside. Foreman. Hare. Allan. Chubbuck.

II. YEAR.

HYDROSTATICS.	OPTICS.	STRENGTH OF MATERIALS.
Patterson. Hare. Shanks. Revell. Watt. Tennant. Chubbuck. Yeates. Wagner. { Burnside. { Saunders. Barber. Craig. Clothier. Wilson. Rounthwaite. { Cooper. { Van Every. { Latham. Monds. Allen. Bray. McMichael. Foreman. Elliott. Hall. Pope. Guy. Hemphill.	Patterson. Shanks. Revell. Chubbuck. Hare. Allan. Willson. Barker. Latham. Guy. Saunders. Watt. Van Every. Yeates. Craig. Monds. Tennant. { Burnside. { Bray. { Cooper. Pope. Elliot. Wagner. Rounthwaite. McMichael. Foreman. Clothier. Hemphill. Hall.	Patterson Barber. Shanks. Chubbuck. Tennant. Latham. { Craig. { Guy. Wagner. Yeates. Revell. Monds. Watt. { Rounthwaite. { Saunders. Hare. Cooper. { Van Every. { Hall. { Bray. { Foreman. Burnside, Clothier.

II. YEAR.

RIGID DYNAMICS.	DESCRIPTIVE GEOMETRY. CIVIL AND MINING ENGINEERING.	DESCRIPTIVE GEOMETRY. MECHANICAL AND ELEC- TRICAL ENGINEERING.
Patterson. Revell. { Chubbuck. { Barber. Hare. Willson. { Craig. { Van Every. Shanks. { Yeates. { Wagner. Monds. { Latham. { Elliott. Tennant. Saunders. { Bray. { Rounthwaite. Clothier. Guy. Hemphill. Pope. { Allan. { McMichael. Foreman. Burnside. Hall. Cooper. Watt.	Patterson. { Tennant. { Watt. { Revell. Shanks. Latham. Clothier. Wilson. Elliott. Cooper. { Allan. { Bray. Burnside.	Barber. Hemphill. { Chubbuck. { Monds. Van Every. Saunders. { Pope. { Craig. { Yeates. { Hare. { Foreman. Rounthwaite. Guy. McMichael. Hall.

II. YEAR.

SPHERICAL TRIGONOMETRY.	SURVEYING.	ASTRONOMY.
Shanks. Revell. Patterson. Bray. { Latham. { Yeates. Saunders. { Van Every. { Tennant. { Monds. { Barber. { Clothier. { Hare. { Burnside. { Craig. { Elliott. { Wagner. { Cooper. { Foreman. Watt. { Rounthwaite. { Allan. { Willson. Pope. { Hemphill. { Guy. Chubbuck. McMichael.	Patterson. Shanks. Revell. Clothier. Latham. Willson. Watt. Tennant. Bray. Elliott. Cooper. Allan.	Shanks. { Patterson. { Wilson. Cooper. Latham. Tennant. Allan. Bray.

II. YEAR.

METALLURGY.	MINERALOGY AND GEOLOGY.	LITHOLOGY.
Barber. Craig. Shanks. Rounthwaite. Patterson. Revell. Wagner. Yeates. Hare. { Elliott. { Saunders. Monds. Pope. Hall. Guy. Hemphill. Tennant. Clothier. Latham. Van Every. Watt. Chubbuck. Allan. { Cooper. { Foreman. { Bray. { McMichael. { Willson.	Shanks. Revell. Elliott. Patterson. Latham. Watt. { Tennant. { Clothier. Willson. Cooper. Bray. Burnside.	Revell. Elliott. Watt. Burnside. Clothier.

II. YEAR.

ELECTRICITY.	THEORY OF MECHANISM.	
{ Chubbuck. { Wagner. Barber. Hare. Van Every. Saunders. Monds. Hemphill. Pope. Hall. Yeates. Craig. Foreman. Rounthwaite. Guy.	Barber. { Hare. { Monds. Wagner. Saunders. Chubbuck. Craig. McMichael. Pope. Guy. Hall. { Foreman. { Yeates. { Rounthwaite. { Van Every. Hemphill.	

III. YEAR.

DRAWING.	THESIS, CIVIL ENGINEERING AND ARCHITECTURE.	THESIS, MINING ENGINEERING.
Vercoe. Lavrock. Williamson. Stewart. McNaughton. Darling. Carter. { Boyd. { Mackintosh. Wilkinson. Shipley. Smallpiece. Grant. Kormann. Smith. Shaw.	Mackintosh. Vercoe. Shaw. Stewart. McNaughton. Smith. Grant. Kormann.	Carter. Boyd.

THESIS, MECHANICAL AND
ELECTRICAL ENGINEER-
ING.

CONSTRUCTION NOTES.

FIELD NOTES.

{ Lavrock.
{ Smallpiece.
Shipley.
Williamson.
Wilkinson.
Darling.

Smallpiece.
Darling.
Shipley.
McNaughton.
Lavrock.
{ Carter.
{ Mackintosh.
{ Wilkinson.
{ Williamson.
Smith.
Shaw.
Grant.
{ Kormann.
{ Stewart.
{ Vercoe.
{ Boyd.

McNaughton.
Kormann.
Vercoe.
Boyd.
Grant.
Stewart.
Smith.
Shaw.
Carter.

III. YEAR.

EXPERIMENTAL PHYSICS* CIVIL ENGINEERING AND ARCHITECTURE.	EXPERIMENTAL PHYSICS, MECHANICAL AND ELEC- TRICAL ENGINEERING.	PRACTICAL MINERALOGY.
Grant. Kormann. McNaughton. Mackintosh. Shaw. Smith. Stewart. Vercoe passed in this subject at a previous ex- amination.	Wilkinson. { Shipley. { Smallpiece. { Darling. { Williamson. { Lavrock.	Smith. Grant. { Kormann. { McNaughton. Shaw. Stewart. { Boyd. { Carter. Vercoe.

PRACTICAL ELECTRICITY.	PRACTICAL CHEMISTRY.	ASSAYING.
Lavrock. { Smallpiece. { Wilkinson. { Shipley. { Darling. Williamson.	Carter. Boyd.	Boyd. Carter.

III. YEAR.

APPLIED CHEMISTRY.	DESCRIPTIVE GEOMETRY.	THERMODYNAMICS.
Stewart. { Carter. { Lavrock. { Smallpiece. { Vercoe. { Darling. { Shipley. Wilkinson. Kormann. { Boyd. { Grant. { Shaw. { Smith. { Williamson. McNaughton. Mackintosh.	Vercoe. Darling. Shipley. Smallpiece. Williamson. Carter. Wilkinson. Lavrock. Smith. Shaw. S'ewart. Mackintosh. Boyd. Kormann. McNaughton. Grant.	Vercoe. Stewart. Smallpiece. Wilkinson. Shipley. Kormann. Darling. { Carter. { Smith. McNaughton. Lavrock. { Shaw. { Grant. Boyd.

HYDRAULICS.	THEORY OF CONSTRUCTION.	COMPOUND STRESS.
Stewart. Smallpiece. Vercoe. Shipley. { Carter. { Wilkinson. Williamson. Darling. Kormann. { Grant. { Smith. { Lavrock. { McNaughton. { Shaw. { Mackintosh. Boyd.	Stewart. Vercoe. Williamson. Smallpiece. Wilkinson. Lavrock. Kormann. { Carter. { Mackintosh. Smith. Shipley. Shaw. Grant. Boyd. Darling. McNaughton.	Stewart. Smallpiece. Vercoe. Mackintosh. Darling. Kormann. Williamson. Smith. Wilkinson. Shipley. { McNaughton. { Shaw. Grant. Lavrock.

III. YEAR.

METHOD OF LEAST SQUARES.	PRACTICAL ASTRONOMY AND GEODESY.	SURVEYING AND LEVELLING.
Stewart. Smallpiece. Wilkinson. Vercoe. Kormann. Smith. McNaughton. Darling. { Shaw. { Shipley. Williamson. Lavrock. Grant.	Vercoe. Stewart. Kormann. Grant. McNaughton. Shaw. Smith.	Vercoe. Stewart. Kormann. Smith. Shaw. McNaughton. Grant. { Boyd. { Carter.

ELECTRICITY.	CONSTRUCTIVE DESIGN.	MACHINE DESIGN.
Wilkinson. Smallpiece. Williamson. Shipley. Lavrock. Darling.	Stewart. Vercoe. Smith. Shaw. Grant. Kormann. Mackintosh. McNaughton.	Shipley. Lavrock. Darling. Williamson. Wilkinson. Smallpiece.

III. YEAR.

MECHANICS OF MACHINERY.	METALLURGY.	MINERALOGY AND GEOLOGY.
Smallpiece. Williamson. Shipley. Lavrock. Darling. Wilkinson.	Carter. Boyd. Lavrock. Smallpiece. Shipley. Wilkinson. Darling. Williamson.	Carter. { Grant. Stewart. Vercoe. Smith. McNaughton. { Boyd. Mackintosh. Kormann. Shaw.
MINING AND ORE DRESSING.	ORE DEPOSITS.	SANITARY SCIENCE, HEATING AND VENTILATION.
Carter. Boyd.	Carter. Boyd.	Mackintosh.
HISTORY OF ARCHITECTURE.	ORNAMENT AND PRINCIPLES OF ARCHITECTURE.	ARCHITECTURAL SKETCHES.
Mackintosh.	Mackintosh.	Mackintosh.

CERTIFICATE IN MINING AND METALLURGY.

A. N. McMillan.

Subjects:

Practical Chemistry.
 Practical Mineralogy.
 Assaying.
 Metallurgy.
 Mineralogy and Geology.
 Ore Deposits.
 Lithology.

FOURTH OR POST-GRADUATE YEAR.

Degree of Bachelor of Applied Science (B.A.Sc.)

UNIVERSITY OF TORONTO.

SCHOOL OF PRACTICAL SCIENCE CERTIFICATE.	ELECTRICITY.	ORGANIC AND INORGANIC CHEMISTRY.
<i>Honors.</i> Gray, A. T. Robinson, A. H. Stull, W. W. Weekes, M. B. <i>Pass.</i> Carpenter, H. S. Charlton, H. W. Smillie, R.	<i>Honors.</i> Gray, A. T. Smilie, R.	<i>Honors.</i> Charlton, H. W.

INDUSTRIAL CHEMISTRY.	THERMODYNAMICS AND THEORY OF HEAT ENGINES.	MINEROLOGY AND GEOLOGY.
<i>Pass.</i> Charlton, H. W.	<i>Pass.</i> Gray, A. T. Smellie, R.	<i>Honors.</i> Robinson, A. H. Stull, W. W. <i>Pass.</i> Carpenter, A. H. Weekes, M. B.

METALLURGY AND ASSAYING.	THESIS.	
<i>Honors.</i> Robinson, A. H. Stull, W. W. <i>Pass.</i> Carpenter, H. S. Weekes, M. B.	<i>Honors.</i> Charlton, H. W. Gray, A. T. Robinson, A. H. Smillie, R. Stull, W. W. Weekes, M. B. <i>Pass.</i> Carpenter, H. S.	

DEGREE OF B.A. Sc.

Honors.

Gray, A. T.
 Robinson, A. H. A.
 Stull, W. W.

Pass.

Carpenter, H. S.
 Charlton, H. W.
 Smillie, R.
 Weekes, M. B.

DEGREE OF C.E.

Alison, T. H.
 Ashbridge, W. T.
 Mitchell, C. H.

SUPPLEMENTAL EXAMINATIONS PASSED.

FIRST YEAR SUBJECTS.

Statics.—Cooper, Burnside, Elliot, Watt, Craig, Wagner.
Dynamics.—Hall, Bray, Boyd.
Algebra.—Burnside.
Electricity and Magnetism.—Foreman, Hall, Rounthwaite.
Analytical Geometry.—Neelands, Willson.
Plane Trigonometry.—Foreman.
Surveying.—Pope.

SECOND YEAR SUBJECTS.

Construction Notes.—Grant.
Practical Chemistry.—Mackintosh.
Mineralogy and Geology.—Grant, Shaw, Mackintosh.
Descriptive Geometry.—Perry, Shipley.
Metallurgy.—Kormann.
Spherical Trigonometry.—Shaw.
Strength of Materials.—Kormann, McNaughton.
Rigid Dynamics.—Perry.

SUPPLEMENTAL EXAMINATIONS TO BE TAKEN.

FIRST YEAR SUBJECTS.

Algebra.—Clarke, N.

Plane Trigonometry.—Cooper, Hunt, G. A., Dickson, G. W.

Dynamics.—Clarke, F. F., Burd, Thorne, Middleton, Barley, Monds.

Descriptive Geometry.—Davison, J. E., Hunt, G. A., Morrison, Saunders, Smith, Johnston, J. C., Johnston, H. A.

Electricity and Magnetism.—Davidson, Dickinson.

Elementary Chemistry.—Price.

Analytical Geometry.—Saunders, Dickinson, Gordon.

Statics.—Cooper, Phillips, Holcroft, Mackenzie, Morrison, Roaf, Smith, Thorne, Johnston, J. C., Johnston, H. A., Lavell, Lumbers, Middleton, Neelands, Barley, Finch.

Surveying.—Thorold, Clarke, N., Davidson, Price.

SECOND YEAR SUBJECTS.

Thesis.—Clothier, Elliot.

Construction Notes.—Willson, Clothier, Foreman, Rounthwaite.

Calculus.—Cooper, Hall, Hemphill, Rounthwaite.

Metallurgy.—Burnside.

Minerology and Geology.—Allan.

Applied Chemistry.—Bray.

Strength of Materials.—Willson, Coulthard, Elliot, Hemphill, McMichael, Pope.

Electricity.—McMichael.

Spherical Trigonometry.—Hall.

Surveying.—Burnside, Coulthard.

Descriptive Geometry.—Wagner.